

Claims:

What is claimed is:

1. (currently amended) ~~A machine for Self cleaning air filtration that is self cleaning machine and a method for using the same~~ comprising:
 - a filter comprising a motor driven belt or disk or counter rotating disks that are perforated;
 - a spray bar;
 - a recirculation pump and supply line;
 - a wet tank;
 - a ultrasonic transducer;
 - ultraviolet submersible bulbs;
 - a water fill port;
 - a liquid level sensor;
 - a liquid and sediment drain port; and
 - a power source .
2. (currently amended) ~~A machine for Self cleaning air filtration that is self cleaning machine and a method for using the same~~ as claimed in claim 1 further comprising a subsonic transducer on said wet tank.
3. (currently amended) ~~A machine for Self cleaning air filtration that is self cleaning machine and a method for using the same~~ as claimed in claim 1 further comprising a treated (high tooth textured and or a stickified) surface on said belt, disk or disks.

4. (currently amended) ~~A machine for~~ Self cleaning air filtration ~~that is self cleaning~~
machine and a method for using the same as claimed in claim 1 further comprising a chemical
injection port on said wet tank.

5. (currently amended) A process for ~~air filtration that is self cleaning~~ air filtration machine and a
method for using the same comprising the steps of:

passing an airstream to be filtered through a machine for air filtration comprising:

a filter comprising a motor driven belt or disk or counter rotating disks that are
perforated;

a spray bar;

a recirculation pump and supply line;

a wet tank;

a ultrasonic transducer;

ultraviolet submersible bulbs;

a water fill port;

a liquid level sensor;

a liquid and sediment drain port;

a power source;

a air diffuser;

a toxic and noxious gas detection and recognition and radiation detection;

a automatic safety shut down with safety charcoal filter;

a audible and visual alarm; and

a ultraviolet saturation chamber.

6. (currently amended) A process for ~~air filtration that is~~ self cleaning air filtration machine and a method for using the same as claimed in claim 5 ~~further comprising the step(s) of wherein~~ the machine for air filtration further comprises a secondary wet filter, a secondary air diffuser, a ~~toxic and noxious gas detection and recognition and radiation detection with automatic safety shut~~ down and audible and visual alarm; a secondary ultraviolet saturation chamber.

7. (currently amended) A multiple step process for air filtration that is self cleaning as claimed in claim 5 ~~6 further comprising a secondary wet filter, a secondary air diffuser, a~~ secondary ultraviolet saturation chamber wherein the machine for air filtration further comprises a inline dryer assembly.

8. (currently amended) A multiple step process for air filtration that is self cleaning ~~multiple step with a variety of feasible options~~ as claimed in claim 6 further comprising a inline dryer assembly wherein the machine for air filtration further comprises the option to use any and all dependent claims in whatever configuration is most beneficial.